

GVP SERIES

Volvo Penta Powered Diesel Generator



TECHNICAL SPECIFICATION DIESEL GENERATOR SET

Group

Model		GVP 415	GVP 450	GVP 509	GVP 563	GVP 660	GVP 710
Stand-by Power	kvA (kW)	415 (332)	450 (360)	509 (407)	563 (450)	660 (528)	710 (568)
Prime Power	kvA (kW)	350 (280)	400 (320)	450 (360)	500 (400)	600 (480)	640 (512)
Power Factor	cos Q	0,8	0,8	0,8	0,8	0,8	0,8
Frequency	Hz	50	50	50	50	50	50

Engine

Make		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 1343 GE	TAD 1344 GE	TAD 1345 GE	TAD 1641 GE	TAD 1642 GE	TAD 1643 GE
Speed	rpm	1500	1500	1500	1500	1500	1500
Stand-by Power	kW (bbh)	484 (356)	529 (389)	586 (431)	643 (473)	753 (554)	811 (596)
Prime Power	kW (bbh)	442 (325)	481 (354)	528 (388)	585 (430)	684 (503)	729 (536)
Number of Cylinder		6	6	6	6	6	6
Cylinder Arrangement		In-Line	In-Line	In-Line	In-Line	In-Line	In-Line
Cycle		4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke
Aspiration		Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler WAC**
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Displacement	lt	12,78	12,78	12,78	16,12	16,12	16,12
Bore and Stroke	mm	131 x 158	131 x 158	131 x 158	144 x 165	144 x 165	144 x 165
Compression Ratio		18,1 : 1	18,1 : 1	18,1 : 1	16,5 : 1	16,5 : 1	16,5 : 1
Electric System		24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	38,5	41,9	45,7	50,6	56,8	62,2
Fuel Consumption %75 Loaded	lt/h	55,7	61,9	67,8	74,8	84,8	93,2
Fuel Consumption %100 Loaded	lt/h	73,8	81,3	90,0	101,3	115,4	126,2
Fuel Tank Capacity, w/o Canopy (Canopy)	lt	673 (399)	673 (399)	673 (527)	1041 (527)	1041 (527)	1193 (527)

Alternator

Type	Synchron, Brushless						
Over Loaded	For 1 hour %110 in 12 hours, for 2 minutes % 150						
Insulation Resistance	2U+1000V	Minimum 1800 Volt					
Short Circuit Resistance	For 10 seconds % 300						
Insulation Class	H	H	H	H	H	H	H
Voltage	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V
Voltage Regulation	± % 0,5						

Dimensions

	mm	1360 (1600)	1260 (1600)	1260 (1900)	1500 (1900)	1520 (1900)	1520 (1900)
Width, w/o Canopy (Canopy)	mm	3120 (4600)	3120 (4600)	3120 (5000)	3500 (5000)	3500 (5000)	3630 (5000)
Length, w/o Canopy (Canopy)	mm	2040 (2600)	2040 (2600)	2040 (3150)	2180 (3150)	2300 (3150)	2340 (3150)
Height, w/o Canopy (Canopy)	kg	3050 (4055)	3270 (4220)	3540 (4815)	3842 (5100)	3930 (5340)	4385 (5710)

* AAC (Air-to-Air-Cooling): Charged hot air by turbo is cooled by the air radiator in the system.
 ** WAC (Water-to-Air-Cooling): Charged hot air by turbo is cooled by water in the cooling system.
 *** CAC (Charged-Air-Cooling): Charged hot air by turbo is cooled by the air radiator in the system.

GENPOWER, reserves the right to modify the characteristics of its product at any time in order to incorporate the latest technological developments. The information contained in this document may therefore be changed without notice. For more technical data and information, please contact to GENPOWER.



2.5 kVA 110 kVA 710 kVA 2500 kVA

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GVP Standard Specifications

Engine

- VOLVO PENTA Heavy duty diesel engine
- Revolution: 1500 rpm
- Water cooled
- Tropical type radiator

Alternator

- VDE 0530 & IEC 34-1 standardizations
- Synchron type brushless
- Automatic voltage regulation (AVR)
- Overload acceptance: 110% for 1 hour, 150% for 2 minutes
- Short circuit resistance: 300 for 10 seconds
- Insulation class: H
- Insulation resistance: 1800 VAC
- Voltage regulation: ± 0,5%
- Protection class: IP23
- Power factor (cosφ): 0,8
- Frequency: 50 Hz

Manual Control Panel

- Microprocessed Electronic Control Panel
- Relays
- Protection fuses
- Thermic magnetic circuit breaker (TMS) 3-pole
- Emergency stop button

Automatic Control Panel

- Microprocessed AMF Electronic Control Panel
- Protection fuses
- Battery charger
- Power Transfer (For ATS)
- Emergency stop button

Chassis

- Mounted on the steel base chassis
- Elastic vibration dampers between engine and chassis
- Chassis integrated fuel tank
- Dial type mechanical fuel indicator

Canopy

- Easy lifting and moving
- Metal parts are coated with electrostatic polyester coated, powder painted
- Thermally insulated exhaust system
- Acoustic insulation with rot*proof, moisture-repellent and non-flammable material (per DIN 4102 A2)

Optional Properties (based on the requirement)

- Thermic magnetic circuit breaker for automatic models
- Protection canopy
- Sound proof canopy
- Trailer mounted genset
- Automation with PLC
- Automatic fuel filling system for external fuel tank (integrated with internal fuel tank)
- Panels for synchronising and parallel running
- Electronic fuel level indicator with low fuel alarm
- Power distribution panel
- Computer controlled, remote control and monitoring system
- Electronic governor for engines with mechanical governor
- Digital or analog indicators



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Group

Model		GVP 110	GVP 145	GVP 172	GVP 200	GVP 220
Stand-by Power	kvA (kW)	110 (88)	145 (116)	172 (138)	200 (160)	220 (176)
Prime Power	kvA (kW)	100 (80)	130 (104)	157 (126)	180 (144)	200 (160)
Power Factor	cos Q	0,8	0,8	0,8	0,8	0,8
Frequency	Hz	50	50	50	50	50

Engine

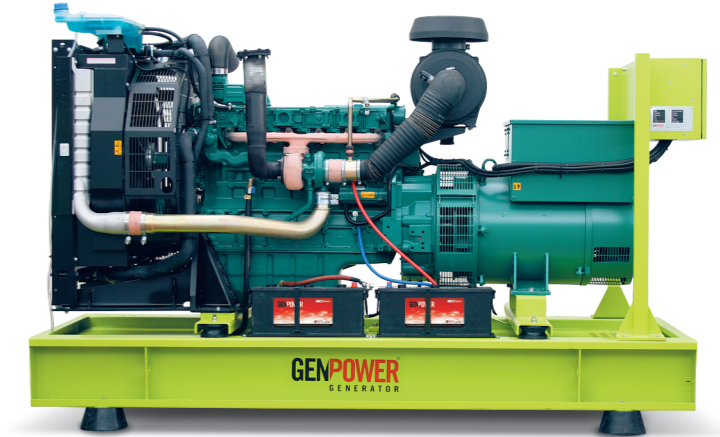
Make		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 531 GE	TAD 532 GE	TAD 731 GE	TAD 732 GE	TAD 733 GE
Speed	rpm	1500	1500	1500	1500	1500
Stand-by Power	kW (bbh)	133 (98)	170 (125)	201 (148)	239 (177)	265 (195)
Prime Power	kW (bbh)	119 (88)	153 (112)	184 (135)	219 (161)	241 (177)
Number of Cylinder		4	4	6	6	6
Cylinder Arrangement		In-Line	In-Line	In-Line	In-Line	In-Line
Cycle		4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke
Aspiration		Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor		Mechanic	Electronic	Mechanic	Electronic	Electronic
Displacement	lt	4,76	4,76	7,15	7,15	7,15
Bore and Stroke	mm	108 x 130	108 x 130	108 x 130	108 x 130	108 x 130
Compression Ratio		18 : 1	17,5 : 1	18 : 1	18 : 1	18 : 1
Electric System		12 VDC	12 VDC	12 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	11,7	14,1	17,6	20,7	22,8
Fuel Consumption %75 Loaded	lt/h	17,0	20,9	25,5	30,2	33,6
Fuel Consumption %100 Loaded	lt/h	22,7	28,4	33,8	40,3	45,3
Fuel Tank Capacity, w/o Canopy (Canopy)	lt	190 (359)	256 (315)	256 (315)	475 (540)	475 (540)

Alternator

Type		Synchron, Brushless				
Over Loaded		For 1 hour %110 in 12 hours, for 2 minutes % 150				
Insulation Resistance	2U+1000V	Minimum 1800 Volt				
Short Circuit Resistance		For 10 seconds % 300				
Insulation Class		H	H	H	H	H
Voltage		230/400 V	230/400 V	230/400 V	230/400 V	230/400 V
Voltage Regulation		± % 0,5				

Dimensions

Width, w/o Canopy (Canopy)	mm	1000 (1100)	1000 (1150)	1200 (1250)	1100 (1250)	1200 (1250)
Length, w/o Canopy (Canopy)	mm	2100 (2950)	2440 (3800)	2800 (3800)	2800 (3800)	2900 (3800)
Height, w/o Canopy (Canopy)	mm	1600 (2540)	1610 (2150)	1750 (2150)	1870 (2700)	1870 (2700)
Weight, w/o Canopy (Canopy)	kg	1280 (1700)	1504 (2182)	1855 (2390)	1986 (2675)	1900 (2992)



Group

Model		GVP 275	GVP 305	GVP 358	GVP 358 (NEW)	GVP 400 (NEW)
Stand-by Power	kvA (kW)	275 (220)	305 (244)	358 (286)	358 (286)	400 (320)
Prime Power	kvA (kW)	250 (200)	285 (228)	325 (260)	325 (260)	350 (280)
Power Factor	cos Q	0,8	0,8	0,8	0,8	0,8
Frequency	Hz	50	50	50	50	50

Engine

Make		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 734 GE	TAD 940 GE	TAD 941 GE	TAD 1341 GE	TAD 1342 GE
Speed	rpm	1500	1500	1500	1500	1500
Stand-by Power	kW (bbh)	328 (241)	363 (267)	422 (310)	411 (302)	453 (333)
Prime Power	kW (bbh)	298 (219)	329 (242)	381 (281)	374 (275)	412 (303)
Number of Cylinder		6	6	6	6	6
Cylinder Arrangement		In-Line	In-Line	In-Line	In-Line	In-Line
Cycle		4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke
Aspiration		Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*	Turbo Intercooler AAC*
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor		Electronic	Electronic	Electronic	Electronic	Electronic
Displacement	lt	7,15	9,36	9,36	12,78	12,78
Bore and Stroke	mm	108 x 130	120 x 138	120 x 138	131 x 158	131 x 158
Compression Ratio		17 : 1	20,2 : 1	17,4 : 1	18,1 : 1	18,1 : 1
Electric System		24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	29,8	29,5	34,6	32,3	36,2
Fuel Consumption %75 Loaded	lt/h	41,6	42,3	49,9	47,6	52,4
Fuel Consumption %100 Loaded	lt/h	52,1	57,6	67,2	62,2	68,5
Fuel Tank Capacity, w/o Canopy (Canopy)	lt	475 (540)	673 (455)	673 (455)	673 (455)	673 (399)

Alternator

Type		Synchron, Brushless				
Over Loaded		For 1 hour %110 in 12 hours, for 2 minutes % 150				
Insulation Resistance	2U+1000V	Minimum 1800 Volt				
Short Circuit Resistance		For 10 seconds % 300				
Insulation Class		H	H	H	H	H
Voltage		230/400 V	230/400 V	230/400 V	230/400 V	230/400 V
Voltage Regulation		± % 0,5				

Dimensions

Width, w/o Canopy (Canopy)	mm	1200 (1250)	1320 (1600)	1320 (1600)	1320 (1600)	1360 (1600)
Length, w/o Canopy (Canopy)	mm	2900 (3800)	3090 (4600)	3120 (4600)	3120 (4600)	3120 (4600)
Height, w/o Canopy (Canopy)	mm	1880 (2700)	1880 (2600)	2030 (2600)	2030 (2600)	2040 (2600)
Weight, w/o Canopy (Canopy)	kg	2070 (3590)	2680 (3590)	2790 (3790)	2850 (3850)	3050 (4055)

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